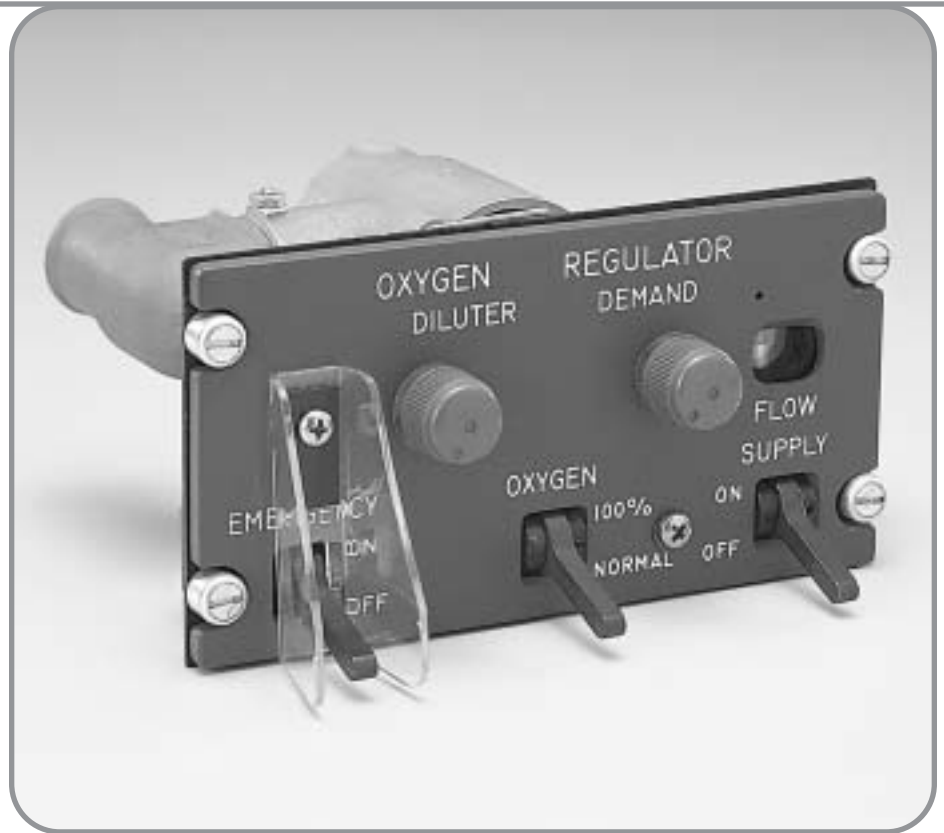




AVOX Systems

Assemblies
Cylinder, Regulator, Valve

28000 Series Diluter Demand Oxygen Regulator Assembly



The AVOX Systems 28000 Series Diluter Demand Oxygen Regulator Assembly is designed to meet both supplemental and emergency respiratory needs of aircraft crew members at altitudes ranging from 5,000 to 40,000 feet (1,524m to 12,192m). The versatile Diluter Demand Oxygen Regulator Assembly can be used on any pressurized cabin aircraft equipped with a 60 to 75 psi oxygen system.

The regulator's oxygen flow is easily monitored with a float-type indicator providing continuous visual data. An illuminated panel provides nighttime identification of controls. The controlled dilution meets F.A.R. Part 25 requirements for crew members.

Outstanding Features

- Swivel-type outlet
- Manual controls allow crew members to select the oxygen supply best suited to abnormal or emergency situations
- 5 VAC 400 Hz light panels are available for greater night flight illumination
- Regulator body inlet port is per AND 10050-5

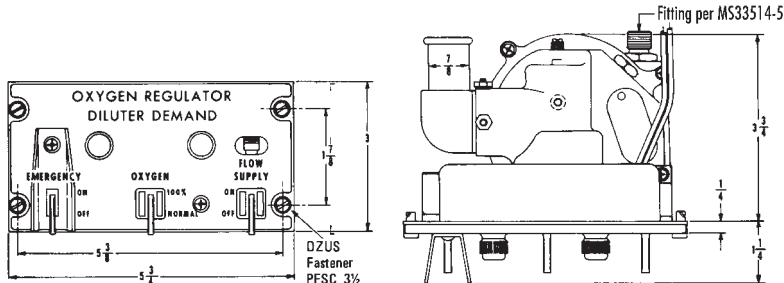
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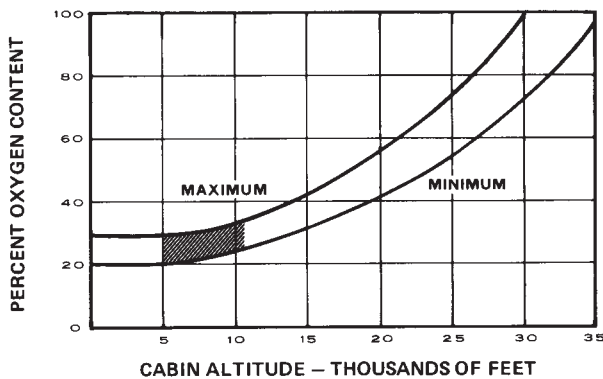
Outline Dimensions



Note

AVOX Part Number	Boeing Part Number
28000-01	BAC 10-60887-2
28000-17	BAC 10-60887-4

Oxygen Dilution Performance



Graph shows total percent of oxygen in breathing mixture at various altitudes. Shaded area indicates normal cabin altitudes during flight.

Light Chart

Dash No.	Voltage	Light Plate Color	Lighting
-01	5	Gray	White
-17	28	Gray	White

Specifications

Flow Capacity	100 Liters at 2" H2O
Temperature Range	Service: -22° to +122°F (-30° to +50°C) Storage: -85° to +158°F (-65° to +65°C)
Vibration	2 G to 1000 Hz
Weight	2.0 lbs. (911g)
Panel Size	3"x 5 3/4" (7.6 cm x 14.8 cm)

Operation

The 28000 Series Regulator senses ambient altitude and automatically supplies the correct oxygen/air mixture required by the crew member at that altitude. Three manual switches control the operation. When SUPPLY switch is "ON," regulator is in normal dilution operation. Pure oxygen becomes available when OXYGEN switch is moved to "100%" position. Placing the EMERGENCY switch in the "ON" position maintains a positive pressure (2 to 4 inches of water).

WARNING

IMPROPER USE OR IMPROPER MAINTENANCE OF THIS EQUIPMENT MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

THIS EQUIPMENT IS TO BE USED ONLY FOR AVIATION APPLICATIONS AND IS TO BE USED BY, OR UNDER THE SUPERVISION OF, A PILOT OR CREW MEMBER TRAINED AND QUALIFIED IN ITS USE. THIS EQUIPMENT IS TO BE SERVICED ONLY IN ACCORDANCE WITH THE APPLICABLE COMPONENT MAINTENANCE MANUAL AVAILABLE FROM

AVOX SYSTEMS AND ONLY BY SERVICE TECHNICIANS TRAINED IN THE INHERENT HAZARDS OF HIGH PRESSURE AVIATION OXYGEN AND KNOWLEDGEABLE IN THIS EQUIPMENT. THE NAMES OF AUTHORIZED SERVICE CENTERS ARE AVAILABLE FROM AVOX SYSTEMS OR YOUR AUTHORIZED AVOX SYSTEMS DISTRIBUTOR.

THIS EQUIPMENT SHALL BE USED ONLY WITH AVIATOR'S BREATHING OXYGEN MEETING THE REQUIREMENTS OF MIL-PRF-27210.